AMENDMENTS TO THE CLAIMS:

1. (Original) In a wireless communication system, a method comprising the steps of:

transmitting a power-on signal from a mobile station to a mobile switching center (MSC) in response to each power activation of the mobile station;

transmitting a power-off signal from the mobile station to the MSC in response to each power deactivation of the mobile station;

updating power status of the mobile station in a home location register (HLR) linked to the MSC in response to receipt of each of said power-on signal and power-off signal; and

in response to each said step of updating, sending a message indicating a change of mobile station power status to an Internet Service Provider (ISP).

2. (Original) A method as recited in claim 1, wherein the signal comprises information identifying the mobile station and its power status, and further comprising the steps of:

in response to receipt of the signal by the ISP, correlating the mobile station identified in the signal with a subscriber of the ISP;

determining whether the correlated ISP subscriber is on-line; and notifying the correlated on-line ISP subscriber of the power status of the mobile station.

- 3. (Original) A method as recited in claim 2, wherein said step of notifying comprises transmitting data to the on-line ISP subscriber for display when the mobile station has been activated.
- 4. (Original) A method as recited in claim 3, wherein the data comprises an icon that indicates the mobile station has a power-on status.
 - 5. (Original) The method of claim 3, further comprising the step of: transmitting a message from the on-line ISP subscriber to the mobile station.
- 6. (Original) The method of claim 5, wherein:
 said transmitting step comprises sending the message via the ISP to a short message
 server in the wireless communication system; and

forwarding the message to the mobile station via the MSC.

- 7. (Original) A method as recited in claim 2, wherein said step of notifying comprises transmitting data to the on-line ISP subscriber for deletion of an icon display when the mobile station has been de-activated.
- 8. (Original) A method as recited in claim 1, wherein the signal comprises information identifying the mobile station and its power status, and the step of transmitting comprises forwarding the signal to a plurality of ISPs.

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9. (Original) In a wireless communication system, a method comprising the steps of:

transmitting a power-on signal from a mobile station to a mobile switching center (MSC) in response to each power activation of the mobile station;

transmitting a power-off signal from the mobile station to the MSC in response to each power deactivation of the mobile station;

updating power status of the mobile station in a home location register (HLR) linked to the MSC in response to receipt of each of said power-on signal and power-off signal;

in response to each said step of updating, determining whether the mobile station is associated with a subscriber of an Internet Service Provider (ISP); and

transmitting a change of mobile station power status signal to a remote database associated with the ISP if an association has occurred in the determining step.

10. (Original) A method as recited in claim 9, wherein:

the step of determining comprises checking for a flag in the HLR indicating that the mobile station is linked to the Internet Service Provider.

11. (Original) A method comprising the steps of:

maintaining power-on and power-off status for each of a plurality of mobile telephone stations in a first database; and

formulating a change of status message for transmission to a second database related to at least one Internet Service Provider (ISP) in response to a change in the status for at least one of the plurality of mobile stations.

12. (Original) A method as recited in claim 11, wherein:

the first database comprises a mobile switching system home location register (HLR) that contains subscriber listings for the plurality of mobile stations and the step of maintaining comprises:

receiving at a mobile switching center (MSC) power-on and power-off signals that are indicative of changes in a power status for each of the plurality of mobile stations; and updating the HLR in response to the received power-on and power-off signals.

13. (Original) A method as recited in claim 12, further comprising the steps of:
receiving at the MSC registration and de-registration signals, indicative of establishing
communication and loss of communication, respectively, with mobile communications network
base stations for each of the plurality of mobile stations;

wherein the HLR is updated further in response to receipt of the registration and deregistration signals; and

formulating a change of registration message for transmission to a second database related to at least one Internet Service Provider (ISP) in response to a change in the registration for at least one of the plurality of mobile stations.

14. (Previously presented) A method comprising the steps of:

maintaining power-on and power-off status for each of a plurality of mobile telephone stations in a first database, wherein the first database comprises a mobile switching system home

location register (HLR) that contains subscriber listings for the plurality of mobile stations and the step of maintaining comprises:

receiving at a mobile switching center (MSC) power-on and power-off signals that are indicative of changes in a power status for each of the plurality of mobile stations, and

updating the HLR in response to the received power-on and power-off signals; and

formulating a change of status message for transmission to a second database related to at least one Internet Service Provider (ISP) in response to a change in the status for at least one of the plurality of mobile stations, wherein the second database contains a table associated with the ISP, the table contains records of respective mobile identification numbers (MIN's) of mobile stations that are provisioned for power-on and power-off status transmissions to the ISP, and further comprising the steps of:

transmitting a change of status message to the second database;

comparing the MIN contained in the change of status message with the table associated with the ISP;

in response to a match of the MIN in the comparing step, updating the record containing the MIN to reflect the status contained in the change of status message; and

providing to the ISP subscriber data indicating the status of the mobile station if the ISP subscriber is on line.

15. (Original) A method as recited in claim 14, wherein the data provided in the providing step contains information, for displaying at a monitor screen of the ISP subscriber, an indication that the mobile station is in an active power state if the message contains active status data for the mobile station.

16. (Original) A method as recited in claim 15, wherein the data provided in the providing step contains information, for deletion of the active indication display at the monitor screen of the ISP subscriber, if the message contains inactive status data for the mobile station.

17. (Previously Presented) A method comprising the steps of:

maintaining power-on and power-off status for each of a plurality of mobile telephone stations in a first database, wherein the first database comprises a mobile switching system home location register (HLR) that contains subscriber listings for the plurality of mobile stations and the step of maintaining comprises:

receiving at a mobile switching center (MSC) power-on and power-off signals that are indicative of changes in a power status for each of the plurality of mobile stations, and

updating the HLR in response to the received power-on and power-off signals; and formulating a change of status message for transmission to a second database related to at least one Internet Service Provider (ISP) in response to a change in the status for at least one of the plurality of mobile stations, wherein:

the second database is stored in a processor remote from the location of the HLR and contains a plurality of tables associated with respective ISP's, each of the tables relating subscribers of its respective ISP with mobile identification numbers (MIN's) of mobile stations;

the step of maintaining further comprises setting a flag in the HLR database for each MIN that is listed in the second database;

the step of formulating comprises identifying a flag in the HLR for the mobile station that has changed status; and

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the method further comprises the step of transmitting the change of status message to the second database.

18. (Original) A method as recited in claim 17, wherein:

the change of status message contains the changed power status and MIN of the mobile station in response to which the change of status message has been formulated, and further comprising the steps of:

comparing the MIN contained in the change of status message with the table;

in response to a match of the MIN in the comparing step, determining whether the ISP subscriber related to said MIN in the table is on line with the Internet; and

providing to the ISP subscriber data relating the status of said mobile station if the ISP subscriber is on line.

19. (Previously Presented) A method comprising the steps of:

maintaining power-on and power-off status for each of a plurality of mobile telephone stations in a first database, wherein the first database comprises a mobile switching system home location register (HLR) that contains subscriber listings for the plurality of mobile stations and the step of maintaining comprises:

receiving at a mobile switching center (MSC) power-on and power-off signals that are indicative of changes in a power status for each of the plurality of mobile stations, and updating the HLR in response to the received power-on and power-off signals;

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formulating a change of status message for transmission to a second database related to at least one Internet Service Provider (ISP) in response to a change in the status for at least one of the plurality of mobile stations;

receiving at the MSC registration and de-registration signals, indicative of establishing communication and loss of communication, respectively, with mobile communications network base stations for each of the plurality of mobile stations;

wherein the HLR is updated further in response to receipt of the registration and deregistration signals; and

formulating a change of registration message for transmission to a second database related to at least one Internet Service Provider (ISP) in response to a change in the registration for at least one of the plurality of mobile stations, wherein:

the second database is stored in a processor remote from the location of the HLR and contains a plurality of tables associated with respective ISP's, each of the tables relating subscribers of its respective ISP with mobile identification numbers (MIN's) of mobile stations;

the step of maintaining further comprises setting a flag in the HLR database for each MIN that is listed in the second database;

the step of formulating comprises identifying a flag in the HLR for the mobile station that has changed registration; and

the method further comprises the step of transmitting the change of registration message to the second database.

20. (Original) A method as recited in claim 19, wherein:

the change of registration message contains the changed base station registration status and MIN of the mobile station in response to which the change of registration message has been formulated, and further comprising the steps of:

comparing the MIN contained in the change of registration message with the table;

in response to a match of the MIN in the comparing step, determining whether the ISP subscriber related to said MIN in the table is on line with the Internet; and

providing to the ISP subscriber data relating the base station registration of said mobile station if the ISP subscriber is on line.

21. (Currently Amended) A wireless communications system comprising: a plurality of mobile stations;

a plurality of base stations interfaced for wireless communications with the plurality of mobile stations and for receiving power status transmissions from the mobile stations;

a mobile switching center connected in a wireless communication network to the base stations, the mobile switching center linked to a home location register for transmission thereto of changes of power status of the mobile stations, the home location register comprising service profiles for each mobile station, including power status; and

a database remote from the home location register, the remote database associated with an Internet Service Provider and containing records relating subscribers of the Internet Service Provider with respective mobile stations, the remote database connected through a data network with the home location register for receiving therefrom change of power status messages for the respective mobile stations.

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Claims 22-27 (Cancelled)

28. (Currently amended) The A method of claim 27, further comprising the steps of:

receiving a signal from a wireless mobile station, indicating a change in status of the

mobile station with regard to availability of the mobile station for communication through a

wireless network;

determining from a profile record associated with the mobile station in a database of the wireless network, if notice of the status change should be provided to an Internet Service Provider (ISP);

in response to determining that notice of the status change should be provided to the ISP, sending a message indicating the changed status of the mobile station to a system of the ISP;

in response to the message indicating the changed status, correlating the mobile station to an on-line customer of the ISP; and

sending a message indicating the change in availability of the mobile station to the online customer of the ISP.

29. (Previously presented) The method of claim 28, wherein the step of correlating comprises recognizing an association of the on-line customer of the ISP with the mobile station for purposes of exchanging messages.

30. (Previously presented) A method comprising the steps of:

receiving a first signal from a wireless network, at an Internet Service Provider (ISP) system coupled to a packet data network, the first signal indicating that a wireless mobile station is available for communication through the wireless network;

in response to the first signal, correlating the mobile station to an on-line customer of the ISP; and

sending a message through the packet data network indicating the availability of the mobile station, to the on-line customer of the ISP.

31. (Previously presented) The method of claim 30, further comprising the steps of:

receiving a second signal from the wireless network, at the ISP system, indicating that the mobile station is no longer available for communication through a wireless network; and

in response to the second signal, sending a message indicating the mobile station is no longer available through the packet data network to the on-line customer of the ISP.

32. (Previously presented) The method of claim 31, wherein the step of correlating comprises recognizing an association of the on-line customer of the ISP with the mobile station for purposes of exchanging messages between the on-line customer and the mobile station.